
Objective Exam

TEST REPORT

Version <1.0>
<1st April 2018>

VERSION HISTORY

Version #	Implemented By	Revision Date	Brief Description
1.0	<u>Group 9</u> Shreya Patel (B16CS025) Saksham Gupta (B16CS030)	1 st April 2018	All necessary functionalities are tested
2.0	<u>Group 13</u> Sarvesh (B16CS032) Vivek (B16CS039)	10 th April 2018	All the test cases have been verified

Objective Exam

Table of Contents

1.0	INTRODUCTION	5
1.1	Purpose	5
2.0	TEST PLAN	5
3.0	DETAILS OF UNIT TESTING.....	5
3.1	ADMIN_LOGIN (T1).....	5
3.2	REGISTER (T2).....	6
3.3	GIVE_TEST (T3)	7
3.4	GET_RESULT (T4)	7
3.5	ADD_QUESTIONS (T5)	9
3.6	SETTINGS (T7).....	10
4.0	DETAILS OF SYSTEM TESTING	11
4.1	ADMIN_LOGIN.....	11
4.2	REGISTER	11
4.3	GIVE_TEST	12
4.4	GET_RESULT	13
4.5	ADD_QUESTIONS.....	13
4.6	SETTINGS	14

1.0 INTRODUCTION

1.1 PURPOSE

This *Objective Exam System Test Report* provides a summary of the results of test performed as outlined within this document.

2.0 TEST PLAN

The test plan for this project can be summed up into following major goals:

1. To check whether the actual software follows the SRS completely or not and if not then report on the changes.
2. To check whether the modules contain any bug, error and any kind of unexpected behavior, and if present then report it.
3. To see if all functionalities work in the specified manner or not.

3.0 DETAILS OF UNIT TESTING

3.1 ADMIN_LOGIN (T1)

3.1.1 TEST ITEMS

1. PASSWORD

3.1.2 FEATURES TO BE TESTED

1. Whether the entered PASSWORD matches the actual password of the admin or not

3.1.3 ITEM PASS/FAIL CRITERIA

1. The item passes if password is entered correctly that is it matches the admin password and thus admin options are displayed
2. The item passes if password is entered incorrectly and the admin access to its functions are denied
3. The item fails if password is entered incorrectly and admin is given access, or if password is entered correctly but access is denied. This may happen because password is case sensitive.

Test Case ID	INPUT	Intended Result	Actual Result	Pass/Fail	Comments	Verification
T1.1	PASSWORD =password	Login successful Display Admin Menu	Login successful Display Admin Menu	pass	-	Yes
T2.2	PASSWORD =PassWord	Access denied (back to Main Menu)	Access denied (back to Main Menu)	pass	Password is case sensitive	Yes

3.2 REGISTER (T2)**3.2.1 TEST ITEMS**

1. FIRSTNAME
2. LASTNAME
3. DATE OF BIRTH

3.2.2 FEATURES TO BE TESTED

1. Whether the entered firstname, lastname, date of birth are valid
2. Whether the new student is added to the database successfully

3.2.3 ITEM PASS/FAIL CRITERIA

1. The item passes if the entered credentials are valid and the new student information is successfully added to the database
2. The item fails if the student information is not added successfully to the database that is if there are some exceptions or bugs while handling database file

Test Case ID	INPUT	Intended Result	Actual Result	Pass/Fail	Comments	Verification
T2.1	FirstName = "John" LastName = "Stephen" Date of Birth = "5 - 5 - 2005"	Registered successful Student Details are displayed	Registered successful Student Details are displayed	pass	-	Yes
T2.2	FirstName = "John" LastName = "Stephen" Date of Birth = "55 - 5 - 2005"	Re-enter date	Re-enter date	pass	The character inputs for date of birth are not handled	No (The software crashed on giving character inputs in the DOB field)

3.3 GIVE_TEST (T3)

3.3.1 TEST ITEMS

1. COURSEID
2. USERID & DATE OF BIRTH
3. QUESTIONS

3.3.2 FEATURES TO BE TESTED

1. Whether the entered COURSEID is valid
2. Whether the entered USERID and DATE OF BIRTH are valid
3. Whether sufficient questions of the entered COURSEID are available in the questions database

3.3.3 ITEM PASS/FAIL CRITERIA

1. The item passes if COURSEID is valid (among the given values)
2. The item passes if USERID & DATE OF BIRTH are valid
3. The item fails if any of the COURSEID, USERID or DATE OF BIRTH is invalid
4. The item fails if number of questions in the database are less than number of questions to be asked in the test

Test Case ID	INPUT	Intended Result	Actual Result	Pass/Fail	Comments	verification
T3.1	COURSEID = 4	Error Message “INSUFFICIENT QUEESION IN DATABASE” (back to Main Menu)	Error Message “INSUFFICIENT QUEESION IN DATABASE” (back to Main Menu)	pass	-	Yes
T3.2	COURSEID = 10	Re-enter valid CourseID	Re-enter valid CourseID	pass	Valid CourseId {1,2,3,4}	Yes
T3.3	COURSEID = 1 USERID = 1 DATE OF BIRTH = 5-5-2005	Test Displayed	Test Displayed	pass	-	Yes
T3.4	COURSEID = 1	Display Error Message	Display Error	pass	-	Yes

Objective Exam

	USERID = 100 DATE OF BIRTH = 5-5-2005	“STUDENT NOT FOUND” (back to Main Menu)	Message “STUDENT NOT FOUND” (back to Main Menu)			
T3.5	COURSEID = 1 USERID = 1 DATE OF BIRTH = 15-5-2005	Display Error Message “STUDENT NOT FOUND” (back to Main Menu)	Display Error Message “STUDENT NOT FOUND” (back to Main Menu)	pass	-	Yes

3.4 GET_RESULT (T4)

3.4.1 TEST ITEMS

1. USERID
2. DATE OF BIRTH

3.4.2 FEATURES TO BE TESTED

1. Whether the entered USERID & DATE OF BIRTH are valid
2. Whether the result is displayed successfully

3.4.3 ITEM PASS/FAIL CRITERIA

1. The item passes if the entered details are valid and the result of that particular user id is displayed
2. The item fails if the USERID or DATE OF birth is invalid

Test Case ID	INPUT	Intended Result	Actual Result	Pass /Fail	Comment	Verification
T3.1	USERID = 1 DATE OF BIRTH = 5-5-2005	Display Result	Result Displayed	pass	-	Yes
T3.1	USERID = 100 DATE OF BIRTH = 5-5-2005	Display Error Message “STUDENT NOT FOUND” (back to Main Menu)	Display Error Message “STUDENT NOT FOUND” (back to Main Menu)	pass	-	No (The program crashes on giving character input)
T3.2	USERID = 1 DATE OF BIRTH =15-5-2005	Display Error Message “STUDENT NOT FOUND” (back to Main Menu)	Display Error Message “STUDENT NOT FOUND” (back to Main Menu)	pass	-	Yes

3.5 ADD_QUESTIONS (T5)

3.5.1 TEST ITEMS

1. COURSEID
2. QUESTION (Includes Options & CorrectAns)

3.5.2 FEATURES TO BE TESTED

1. Whether the entered COURSEID is valid
2. Whether the entered CorrectAns is one of the options
3. Whether the questions and options are successfully registered

3.5.3 ITEM PASS/FAIL CRITERIA

1. The item passes if the entered COURSEID is valid and option to add questions to that particular course is enabled
2. The item fails if the COURSEID is invalid

Test Case ID	INPUT	Intended Result	Actual Result	Pass/Fail	Comments	Verification
T3.1	Input = x	Back to Admin Menu	Back to Admin Menu	Pass	-	Yes
T3.2	Input = a COURSEID = 10	Re-enter valid CourseId	Re-enter valid CourseId	pass	-	Yes
T3.3	Input = a COURSEID = 1 Question = 2+2 Choice1 = 1 Choice2 = 4 Choice3 = 7 Choice4 = 10 CorrectAns = 2	Question Added Successfully	Question Added Successfully	pass	-	Yes
T3.4	Input = a COURSEID = 1 Question = 2+2 Choice1 = 1 Choice2 = 4 Choice3 = 7 Choice4 = 10 CorrectAns = 6	Re-enter valid option from the choices	Re-enter valid option from the choices	pass	-	Yes

3.6 SETTINGS (T7)

3.6.1 TEST ITEMS

1. Change Admin Password
2. Change Students Database Filename
3. Change Questions Database Filename
4. Change Marks Awarded for Right Answer
5. Change Marks Awarded for Wrong Answer
6. Change Number of Questions to be asked in the Test

3.6.2 FEATURES TO BE TESTED

1. Whether the Admin password is changed.
2. Whether the Database Filenames are changed.
3. Whether the Marks are changed
4. Whether number of questions to be asked in the test are changed.

3.6.3 ITEM PASS/FAIL CRITERIA

1. The item passes if the entered details are valid and changes are updated
2. The item fails if any of the changes made are not successful

Test Case ID	INPUT	Intended Result	Actual Result	Pass/Fail	Comments	verification
T3.1	Input = n	No changes Back to Admin Menu	No changes Back to Admin Menu	Pass	-	Yes
T3.2	Input = abc	No changes Back to Admin Menu	No changes Back to Admin Menu	Pass	-	yes
T3.3	Input = y	Options to make changes	Options to make changes	Pass	-	Yes
T3.4	New Password = PASSWORD	Password Changed	Password Changed	pass	-	Yes
T3.5	New Password = X	Password Unchanged	Password Unchanged	pass	-	Yes
T3.6	New Marks = -1	Marks Unchanged	Marks Unchanged	pass	-	Yes
T3.7	New Marks = 10	Marks changed	Marks changed	pass	-	Yes
T3.8	New Marks = a	Error Message “ENTER POSITIVE INTEGER VALUES ELSE NO CHANGES”	Error Message “ENTER POSITIVE INTEGER VALUES ELSE NO CHANGES”	pass	Exceptions Handled	Yes

Objective Exam

T3.9	No of Questions to be asked = a	Error Message “ENTER POSITIVE INTEGER VALUES ELSE NO CHANGES”	Error Message “ENTER POSITIVE INTEGER VALUES ELSE NO CHANGES”	pass	Exceptions Handled	Yes
T3.10	No of Questions to be asked = -1	No of Questions to be asked remains unchanged	No of Questions to be asked remains unchanged	pass	Number can't be negative	Yes
T3.11	No of Questions to be asked = 5	No of Questions to be asked changed successfully	No of Questions to be asked changed successfully	pass	-	Yes

4.0 DETAILS OF SYSTEM TESTING

4.1 ADMIN_LOGIN

Step	Test Step/ Input	Intended Result	Actual Result	Pass/ Fail	Comments	verification
1	Input password	-	-	-	-	Yes{But no privacy of password as password is not hidden }
2	Check whether input password matches admin password 1. If matched 2. If not matched	1. Admin Menu is displayed 2. Access Denied Go back to main menu	1. Admin Menu is displayed 2. Access Denied Go back to main menu	pass	-	Yes

4.2 REGISTER

Step	Test Step/ Input	Intended Result	Actual Result	Pass/ Fail	Comments	verification
1	Enter Details 1. Enter first name 2. Enter last	If all the entries are valid and day, month and year are	Student Registered Student	pass	-	No (The program crashes if

Objective Exam

	name 3. Enter day of birth 4. Enter month of birth 5. Enter year of birth	within acceptable limits then the student is registered Student details are displayed	details are displayed			given inputs separated by “ ” and also if character is given in (DOB)
2	Invalid Entries	Student Not Registered. The software asks user to re-enter the desired entries	Student Not Registered	pass	-	

4.3 GIVE_TEST

Step	Test Step/ Input	Intended Result	Actual Result	Pass/Fail	Comment	verification
1	Enter Details 1. Enter Course ID 2. Enter User ID 3. Enter date of birth	-	-	-	-	Yes
2	If Invalid Entries	Test Not displayed (back to Main Menu)	Test not displayed (back to Main Menu)	pass	-	Yes
3.	If all the entries are valid and day, month and year are within acceptable limits Then Check for availability of minimum questions in the database	-	-	-	-	Yes
3	If the number of questions in the	Test not displayed	Test not displayed	pass	-	yes

Objective Exam

	database are less than number of questions to be asked	and display error of insufficient questions	Error message displayed			
4	If sufficient questions are available 1.Display Questions 2.Input answers 3.Calculate marks	Questions displayed	Questions displayed	pass	-	Yes
5	Display result of the test and update the result into database of the student	Marks Obtained displayed	Marks Obtained displayed	pass	-	Yes

4.4 GET_RESULT

Step	Test Step/ Input	Intended Result	Actual Result	Pass/Fail	Comment	Verification
1	Enter Details 1. Enter USER ID 2. Enter date of birth	-	-	-	-	No (Crashes on character input in DOB)
2	If Invalid Entries	Display Error message “Student Not Found”	Error message displayed “Student Not Found”	Pass	-	Yes
3	If all the entries are valid and day, month and year are within acceptable limits Then get profile and result of the student from the database	Display Profile Display results of the test appeared	Profile displayed Result Displayed	Pass	-	yes

4.5 ADD_QUESTION

Step	Test Step/ Input	Intended Result	Actual Result	Pass/Fail	Comment	verification
1	Successful Admin Login	-	-	-	-	Yes

Objective Exam

2	Enter Details 1. Enter Course ID 2. Enter Question 3. Enter options	Display Error message “Student Not Found”	Error message displayed “Student Not Found”	Pass	-	yes
3	If inputs are not within limits, user is asked to re-enter the details	Messages to re-enter are displayed	Messages to re-enter are displayed	Pass	-	Yes
3	Entered Valid Question is added to the Database	-	-	-	-	Yes
4	Enter ‘x’ to stop	Back to Admin Menu	Admin Menu displayed	Pass	-	yes

4.6 SETTINGS

Step	Test Step/ Input	Intended Result	Actual Result	Pass /Fail	Comment	Verification
1	Display Current Settings	-	-	-	-	Yes
2	Enter 1. y to change 2. n to exit	1. Options to Change 2. back to Main Menu	1. Options to Change 2. back to Main Menu	Pass	-	Yes
3	If input=y Steps: 1.Enter new Admin Password or X for no change 2.Enter new Students Database filename or X for no change 3. Enter new Questions Database filename or X for no change 4. Enter Marks for Right Answer 5. Enter Marks for	1.Admin Password updated/ remain unchanged resp 2.Students database filename updated/ remain unchanged resp 3.Admin Password updated/ remain unchanged resp 4.Positive Marks updated 5.Negative Marks	1.Admin Password updated/ remain unchanged resp 2.Students database filename updated/ remain unchanged resp 3.Admin Password updated/ remain unchanged resp 4.Positive Marks updated 5.Negative Marks	Pass	-	Yes

Objective Exam

	Wrong Answer 6. Enter no. of Questions to be asked in the test	updated 6.No. of questions to be asked in a Test updated	updated 6.No. of questions to be asked in a Test updated			
4	Update changes in the system	Back to Admin Menu	Admin Menu displayed	Pass	-	yes